

Crawford County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/26/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 18 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Crawford County economy.¹

These 18 sectors have a total direct output of approximately **\$536.4 million** and support **1,499.6 jobs** in Crawford County. Running the model for all 18 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Crawford Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	1,499.6	7.29%	\$85,249,506	6.37%	\$536,392,168	40.06%
Indirect Effect	547.5	2.66%	\$37,551,191	2.80%	\$73,814,889	5.51%
Induced Effect	274.3	1.33%	\$17,980,256	1.34%	\$32,106,120	2.40%
Total Effect	2,321.4	11.29%	\$140,780,953	10.51%	\$642,313,177	47.97%

As shown in the above table, agriculture, food, and food processing sectors support **2,321.4 jobs**, or **11.29%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$642.3 million**, roughly **47.97% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 18 agriculture, food, and food processing sectors is approximately **\$140.8 million**, or **10.51% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **10.51% of the total economy**.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

1 Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

2 Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

3 Value added = labor income + indirect business taxes + other property type income.

4 GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

5 Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **532.3 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Crawford County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	532.3	\$45,355,490
Meat processed from carcasses	415.2	\$218,440,754
Wholesale trade	137.4	\$26,599,680
Support activities for agriculture and forestry	134.2	\$3,331,119
All other crop farming	130.1	\$7,146,483
Dog and cat food manufacturing	107.5	\$149,228,945
Grain farming	97.8	\$26,163,704
Management of companies and enterprises	64.5	\$11,054,944
Dairy cattle and milk production	54.8	\$19,288,396
Veterinary services	37.6	\$3,722,050

The meat processed from carcasses sector directly contributes approximately **\$218.4 million** to the Crawford County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Meat processed from carcasses	415.2	\$218,440,754
Dog and cat food manufacturing	107.5	\$149,228,945
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	532.3	\$45,355,490
Other animal food manufacturing	29.7	\$41,617,390
Wholesale trade	137.4	\$26,599,680
Grain farming	97.8	\$26,163,704
Dairy cattle and milk production	54.8	\$19,288,396
Oilseed farming	23.4	\$18,770,401
Management of companies and enterprises	64.5	\$11,054,944
All other crop farming	130.1	\$7,146,483

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Crawford County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	23.4	\$18,770,401.00
Grain farming	97.8	\$26,163,703.92
Vegetable and melon farming	0.3	\$52,447.12
Fruit farming	2.3	\$201,138.12
Tree nut farming	0.1	\$13,244.20
Greenhouse, nursery, and floriculture production	5.5	\$800,202.43
All other crop farming	130.1	\$7,146,482.47
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	532.3	\$45,355,487.82
Dairy cattle and milk production	54.8	\$19,288,394.93
Poultry and egg production	0.5	\$362,646.46
Animal production, except cattle and poultry and eggs	6.7	\$661,458.25
Dog and cat food manufacturing	107.5	\$149,228,942.87
Other animal food manufacturing	29.7	\$41,617,389.68
Meat processed from carcasses	415.2	\$218,440,750.12
Bread and bakery product, except frozen, manufacturing	24.3	\$2,816,221.95
Frozen cakes and other pastries manufacturing	1.4	\$217,347.67
Veterinary services	37.6	\$3,722,049.47
Landscape and horticultural services	30.3	\$1,533,848.76

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Crawford County, the retail sector was omitted.